



IN THE UNITED STATES AND TRADEMARK OFFICE

IN RE Application of

Josée Hamel, et al.

Serial No : 09/471,255

Filed : December 23, 1999

Title: NOVEL STREPTOCOCCUS ANTIGENS

**DECLARATION OF DR. DENIS MARTIN**

I, Denis Martin, declare that:

1. I am a co-inventor of the invention of the subject Patent Application No. 09/471,255, entitled "*Novel Streptococcus Antigens*."
2. I am a citizen of Canada, residing at 927 Place Séguin, Ste-Thérèse, Province of Quebec, Canada, J7e 4P5.
3. I am Director of Research, ID Biomedical Corporation of Quebec.
4. I have read the Office Action mailed June 23, 2005, in the above-referenced application and understand that claims 16, 19, 20, 25, 34, 35, and 39-50 of the present application stand rejected under 35 U.S.C. § 102(e) over US 6,582,706 ('706 patent). The priority date of the cited prior art reference is December 21, 1998. The priority date of the invention disclosed in the above-referenced application is December 23, 1998. The invention disclosed and claimed in the above-referenced application was conceived and reduced to practice prior to the Section 102(e) date of the '706 patent, *i.e.*, December 21, 1998, as evidenced by the enclosed copies of notebook pages witnessed and signed on August 17, 1998, which show that the claimed polypeptides had been isolated, and sequenced at that time. Thus, the '706 patent is not prior art to the above-referenced application.
5. I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further

that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date

Denis Martin

02 Dec 2005

A handwritten signature in black ink, appearing to read "Denis Martin", with a large, stylized loop at the end.

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3-1 de l'ORF-32c

MLL Sequence ORF+1 Sp3 #3-1 / p. 301

Project No. \_\_\_\_\_  
Book No. 145

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Résultats du séquençage de l'ORF+1 du clone Sp3 #3-1 / p. 301 et l'ORF+3 du clone Sp3-3 / p. 301

+1 de l'ORF-32c

petre  
petre

et 30  
01/00

Spn3 vs Spn3 (clonage) Formatted Alignment

Spn3 db.ASCII	CGGACGCTT TAGGTACG CAGTATT TTACTGCTT AGCTGCTTG	1350
Spn3 (clonage)	CGGACGCTT TAGGTACG CAGTATT TTACTGCTT AGCTGCTTG	1350
Consensus	CGGACGCTT TAGGTACG CAGTATT TTACTGCTT AGCTGCTTG	1350
Spn3 db.ASCII	GTAGAGCAT TGACTTTTA TCAATGCTT ACTGCTTGA GCGCATAGC	1400
Spn3 (clonage)	GTAGAGCAT TGACTTTTA TCAATGCTT ACTGCTTGA GCGCATAGC	1400
Consensus	GTAGAGCAT TGACTTTTA TCAATGCTT ACTGCTTGA GCGCATAGC	1400
Spn3 db.ASCII	GCTCATATAT GCGGCTTTC CGAATTCTA ATCTCTTTA ATTCATCTT	1450
Spn3 (clonage)	GCTCATATAT GCGGCTTTC CGAATTCTA ATCTCTTTA ATTCATCTT	1450
Consensus	GCTCATATAT GCGGCTTTC CGAATTCTA ATCTCTTTA ATTCATCTT	1450
Spn3 db.ASCII	TCTACTTTC CAAACTCTA TTACTCTTA TTATACACA TTTCATCTT	1500
Spn3 (clonage)	TCTACTTTC CAAACTCTA TTACTCTTA TTATACACA TTTCATCTT	1500
Consensus	TCTACTTTC CAAACTCTA TTACTCTTA TTATACACA TTTCATCTT	1500
Spn3 db.ASCII	CACCTTCCA GTATATATG CACTCTTGC GAAGAGCTT TCAATCTCT	1550
Spn3 (clonage)	CACCTTCCA GTATATATG CACTCTTGC GAAGAGCTT TCAATCTCT	1550
Consensus	CACCTTCCA GTATATATG CACTCTTGC GAAGAGCTT TCAATCTCT	1550
Spn3 db.ASCII	AAAGTATTA GTGATCCAA TTGAGGACT CCAGAGACA AGAAGCATC	1600
Spn3 (clonage)	AAAGTATTA GTGATCCAA TTGAGGACT CCAGAGACA AGAAGCATC	1600
Consensus	AAAGTATTA GTGATCCAA TTGAGGACT CCAGAGACA AGAAGCATC	1600
Spn3 db.ASCII	TGTGTACCA AGTATTGAT GCGAGAGAT CAGCTGTAT TCTGACCTA	1650
Spn3 (clonage)	TGTGTACCA AGTATTGAT GCGAGAGAT CAGCTGTAT TCTGACCTA	1650
Consensus	TGTGTACCA AGTATTGAT GCGAGAGAT CAGCTGTAT TCTGACCTA	1650
Spn3 db.ASCII	GCGAATTTT TAAATGATA ACTATTACT GTTATATTA ATGCTTAAAT	1700
Spn3 (clonage)	GCGAATTTT TAAATGATA ACTATTACT GTTATATTA ATGCTTAAAT	1700
Consensus	GCGAATTTT TAAATGATA ACTATTACT GTTATATTA ATGCTTAAAT	1700
Spn3 db.ASCII	AAACGTTTA GAAGACTAT TAAATAGTA AAGAGGTTT AGAAAAACT	1750
Spn3 (clonage)	AAACGTTTA GAAGACTAT TAAATAGTA AAGAGGTTT AGAAAAACT	1750
Consensus	AAACGTTTA GAAGACTAT TAAATAGTA AAGAGGTTT AGAAAAACT	1750
Spn3 db.ASCII	TCATCATTA TTGAATGAG GATTTATGA AATTATGTA AAAATATATA	1800
Spn3 (clonage)	TCATCATTA TTGAATGAG GATTTATGA AATTATGTA AAAATATATA	1800
Consensus	TCATCATTA TTGAATGAG GATTTATGA AATTATGTA AAAATATATA	1800
Spn3 db.ASCII	GCGATGATG CAGCTGTAT GTATCTCTT AGCTATATG CAGCTGACT	1850
Spn3 (clonage)	GCGATGATG CAGCTGTAT GTATCTCTT AGCTATATG CAGCTGACT	1850
Consensus	GCGATGATG CAGCTGTAT GTATCTCTT AGCTATATG CAGCTGACT	1850
Spn3 db.ASCII	AAACGATTT GTTCTGAGT AAATGAGA CATTATCTT GTCTCTATG	1900
Spn3 (clonage)	AAACGATTT GTTCTGAGT AAATGAGA CATTATCTT GTCTCTATG	1900
Consensus	AAACGATTT GTTCTGAGT AAATGAGA CATTATCTT GTCTCTATG	1900
Spn3 db.ASCII	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	1950
Spn3 (clonage)	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	1950
Consensus	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	1950
Spn3 db.ASCII	GTGAGGATG AAGAGGATG TCAATGCTT CAGTATCTT TCAATATTA	2000
Spn3 (clonage)	GTGAGGATG AAGAGGATG TCAATGCTT CAGTATCTT TCAATATTA	2000
Consensus	GTGAGGATG AAGAGGATG TCAATGCTT CAGTATCTT TCAATATTA	2000
Spn3 db.ASCII	GTGAGGATG AAGAGGATG TCAATGCTT CAGTATCTT TCAATATTA	2050
Spn3 (clonage)	GTGAGGATG AAGAGGATG TCAATGCTT CAGTATCTT TCAATATTA	2050
Consensus	GTGAGGATG AAGAGGATG TCAATGCTT CAGTATCTT TCAATATTA	2050
Spn3 db.ASCII	GATGATGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	2100
Spn3 (clonage)	GATGATGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	2100
Consensus	GATGATGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	2100
Spn3 db.ASCII	GATGATGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	2150
Spn3 (clonage)	GATGATGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	2150
Consensus	GATGATGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	2150
Spn3 db.ASCII	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	2200
Spn3 (clonage)	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	2200
Consensus	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	2200
Spn3 db.ASCII	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	2250
Spn3 (clonage)	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	2250
Consensus	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	2250

Spn3 vs Spn3 (clonage) Formatted Alignment

Spn3 db.ASCII	CTATGATCA GTATATATG CACTCTTGC GAAGAGCTT TCAATCTCT	2650
Spn3 (clonage)	CTATGATCA GTATATATG CACTCTTGC GAAGAGCTT TCAATCTCT	814
Consensus	CTATGATCA GTATATATG CACTCTTGC GAAGAGCTT TCAATCTCT	2650
Spn3 db.ASCII	TTGCTGCTT TAGGTACG CAGTATT TTACTGCTT AGCTGCTTG	2700
Spn3 (clonage)	TTGCTGCTT TAGGTACG CAGTATT TTACTGCTT AGCTGCTTG	864
Consensus	TTGCTGCTT TAGGTACG CAGTATT TTACTGCTT AGCTGCTTG	2700
Spn3 db.ASCII	GCTCATATAT GCGGCTTTC CGAATTCTA ATCTCTTTA ATTCATCTT	2750
Spn3 (clonage)	GCTCATATAT GCGGCTTTC CGAATTCTA ATCTCTTTA ATTCATCTT	914
Consensus	GCTCATATAT GCGGCTTTC CGAATTCTA ATCTCTTTA ATTCATCTT	2750
Spn3 db.ASCII	TCTACTTTC CAAACTCTA TTACTCTTA TTATACACA TTTCATCTT	2800
Spn3 (clonage)	TCTACTTTC CAAACTCTA TTACTCTTA TTATACACA TTTCATCTT	964
Consensus	TCTACTTTC CAAACTCTA TTACTCTTA TTATACACA TTTCATCTT	2800
Spn3 db.ASCII	CACCTTCCA GTATATATG CACTCTTGC GAAGAGCTT TCAATCTCT	2850
Spn3 (clonage)	CACCTTCCA GTATATATG CACTCTTGC GAAGAGCTT TCAATCTCT	1014
Consensus	CACCTTCCA GTATATATG CACTCTTGC GAAGAGCTT TCAATCTCT	2850
Spn3 db.ASCII	AAAGTATTA GTGATCCAA TTGAGGACT CCAGAGACA AGAAGCATC	2900
Spn3 (clonage)	AAAGTATTA GTGATCCAA TTGAGGACT CCAGAGACA AGAAGCATC	1064
Consensus	AAAGTATTA GTGATCCAA TTGAGGACT CCAGAGACA AGAAGCATC	2900
Spn3 db.ASCII	TGTGTACCA AGTATTGAT GCGAGAGAT CAGCTGTAT TCTGACCTA	2950
Spn3 (clonage)	TGTGTACCA AGTATTGAT GCGAGAGAT CAGCTGTAT TCTGACCTA	1114
Consensus	TGTGTACCA AGTATTGAT GCGAGAGAT CAGCTGTAT TCTGACCTA	2950
Spn3 db.ASCII	GCGAATTTT TAAATGATA ACTATTACT GTTATATTA ATGCTTAAAT	3000
Spn3 (clonage)	GCGAATTTT TAAATGATA ACTATTACT GTTATATTA ATGCTTAAAT	1164
Consensus	GCGAATTTT TAAATGATA ACTATTACT GTTATATTA ATGCTTAAAT	3000
Spn3 db.ASCII	AAACGTTTA GAAGACTAT TAAATAGTA AAGAGGTTT AGAAAAACT	3050
Spn3 (clonage)	AAACGTTTA GAAGACTAT TAAATAGTA AAGAGGTTT AGAAAAACT	1214
Consensus	AAACGTTTA GAAGACTAT TAAATAGTA AAGAGGTTT AGAAAAACT	3050
Spn3 db.ASCII	TCATCATTA TTGAATGAG GATTTATGA AATTATGTA AAAATATATA	3100
Spn3 (clonage)	TCATCATTA TTGAATGAG GATTTATGA AATTATGTA AAAATATATA	1264
Consensus	TCATCATTA TTGAATGAG GATTTATGA AATTATGTA AAAATATATA	3100
Spn3 db.ASCII	GCGATGATG CAGCTGTAT GTATCTCTT AGCTATATG CAGCTGACT	3150
Spn3 (clonage)	GCGATGATG CAGCTGTAT GTATCTCTT AGCTATATG CAGCTGACT	1314
Consensus	GCGATGATG CAGCTGTAT GTATCTCTT AGCTATATG CAGCTGACT	3150
Spn3 db.ASCII	AAACGATTT GTTCTGAGT AAATGAGA CATTATCTT GTCTCTATG	3200
Spn3 (clonage)	AAACGATTT GTTCTGAGT AAATGAGA CATTATCTT GTCTCTATG	1364
Consensus	AAACGATTT GTTCTGAGT AAATGAGA CATTATCTT GTCTCTATG	3200
Spn3 db.ASCII	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	3250
Spn3 (clonage)	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	1414
Consensus	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	3250
Spn3 db.ASCII	GTGAGGATG AAGAGGATG TCAATGCTT CAGTATCTT TCAATATTA	3300
Spn3 (clonage)	GTGAGGATG AAGAGGATG TCAATGCTT CAGTATCTT TCAATATTA	1464
Consensus	GTGAGGATG AAGAGGATG TCAATGCTT CAGTATCTT TCAATATTA	3300
Spn3 db.ASCII	GTGAGGATG AAGAGGATG TCAATGCTT CAGTATCTT TCAATATTA	3350
Spn3 (clonage)	GTGAGGATG AAGAGGATG TCAATGCTT CAGTATCTT TCAATATTA	1514
Consensus	GTGAGGATG AAGAGGATG TCAATGCTT CAGTATCTT TCAATATTA	3350
Spn3 db.ASCII	GATGATGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	3400
Spn3 (clonage)	GATGATGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	1564
Consensus	GATGATGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	3400
Spn3 db.ASCII	GATGATGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	3450
Spn3 (clonage)	GATGATGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	1614
Consensus	GATGATGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	3450
Spn3 db.ASCII	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	3500
Spn3 (clonage)	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	1664
Consensus	TGATGCGAT CAGTCAATG CAGAAAGTT AAATCTTTC ACCAGACCG	3500

Witnessed & Understood by me,

Clement Rigue

Date

17Aout 98

Invented by

Recorded by  
C. Rigue

Date

13/08/98

Invent
Record

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Spn3 db.ASCII 3950  
Spn3 (clone) 2114  
Consensus 3950

Spn3 db.ASCII 4000  
Spn3 (clone) 2164  
Consensus 4000

Spn3 db.ASCII 4050  
Spn3 (clone) 2214  
Consensus 4050

Spn3 db.ASCII 4100  
Spn3 (clone) 2264  
Consensus 4100

Spn3 db.ASCII 4150  
Spn3 (clone) 2314  
Consensus 4150

Spn3 db.ASCII 4200  
Spn3 (clone) 2364  
Consensus 4200

Spn3 db.ASCII 4250  
Spn3 (clone) 2414  
Consensus 4250

Spn3 db.ASCII 4300  
Spn3 (clone) 2464  
Consensus 4300

Spn3 db.ASCII 4350  
Spn3 (clone) 2514  
Consensus 4350

Spn3 db.ASCII 4400  
Spn3 (clone) 2564  
Consensus 4400

Spn3 db.ASCII 4450  
Spn3 (clone) 2614  
Consensus 4450

Spn3 db.ASCII 4500  
Spn3 (clone) 2664  
Consensus 4500

Spn3 db.ASCII 4550  
Spn3 (clone) 2714  
Consensus 4550

## Spn3 vs Spn3 (clone) Formatted Alignment

Spn3 db.ASCII 4600  
Spn3 (clone) 2764  
Consensus 4600

Spn3 db.ASCII 4650  
Spn3 (clone) 2814  
Consensus 4650

Spn3 db.ASCII 4700  
Spn3 (clone) 2864  
Consensus 4700

Spn3 db.ASCII 4750  
Spn3 (clone) 2914  
Consensus 4750

Spn3 db.ASCII 4800  
Spn3 (clone) 2964  
Consensus 4800

Spn3 db.ASCII 4850  
Spn3 (clone) 3014  
Consensus 4850

Spn3 db.ASCII 4900  
Spn3 (clone) 3064  
Consensus 4900

Spn3 db.ASCII 4950  
Spn3 (clone) 3114  
Consensus 4950

Spn3 db.ASCII 5000  
Spn3 (clone) 3164  
Consensus 5000

Spn3 db.ASCII 5050  
Spn3 (clone) 3214  
Consensus 5050

Spn3 db.ASCII 5100  
Spn3 (clone) 3264  
Consensus 5100

Spn3 db.ASCII 5150  
Spn3 (clone) 3314  
Consensus 5150

Spn3 db.ASCII 5200  
Spn3 (clone) 3364  
Consensus 5200

Spn3 db.ASCII 5250  
Spn3 (clone) 3414  
Consensus 5250

Spn3 db.ASCII 5300  
Spn3 (clone) 3464  
Consensus 5300

Spn3 db.ASCII 5350  
Spn3 (clone) 3514  
Consensus 5350

Spn3 db.ASCII 5400  
Spn3 (clone) 3564  
Consensus 5400

Spn3 db.ASCII 5450  
Spn3 (clone) 3614  
Consensus 5450

Spn3 db.ASCII 5500  
Spn3 (clone) 3664  
Consensus 5500

Spn3 db.ASCII 5550  
Spn3 (clone) 3714  
Consensus 5550

Spn3 db.ASCII 5600  
Spn3 (clone) 3764  
Consensus 5600

Spn3 db.ASCII 5650  
Spn3 (clone) 3814  
Consensus 5650

Spn3 db.ASCII 5700  
Spn3 (clone) 3864  
Consensus 5700

Spn3 db.ASCII 5750  
Spn3 (clone) 3914  
Consensus 5750

Spn3 db.ASCII 5800  
Spn3 (clone) 3964  
Consensus 5800

Spn3 db.ASCII 5850  
Spn3 (clone) 4014  
Consensus 5850

Spn3 db.ASCII 5900  
Spn3 (clone) 4064  
Consensus 5900

Spn3 db.ASCII 5950  
Spn3 (clone) 4114  
Consensus 5950

Spn3 db.ASCII 6000  
Spn3 (clone) 4164  
Consensus 6000

Spn3 db.ASCII 6050  
Spn3 (clone) 4214  
Consensus 6050

Spn3 db.ASCII 6100  
Spn3 (clone) 4264  
Consensus 6100

Spn3 db.ASCII 6150  
Spn3 (clone) 4314  
Consensus 6150

Spn3 db.ASCII 6200  
Spn3 (clone) 4364  
Consensus 6200

Spn3 db.ASCII 6250  
Spn3 (clone) 4414  
Consensus 6250

Spn3 db.ASCII 6300  
Spn3 (clone) 4464  
Consensus 6300

Spn3 db.ASCII 6350  
Spn3 (clone) 4514  
Consensus 6350

Spn3 db.ASCII 6400  
Spn3 (clone) 4564  
Consensus 6400

Spn3 db.ASCII 6450  
Spn3 (clone) 4614  
Consensus 6450

Spn3 db.ASCII 6500  
Spn3 (clone) 4664  
Consensus 6500

Spn3 db.ASCII 6550  
Spn3 (clone) 4714  
Consensus 6550

Spn3 db.ASCII 6600  
Spn3 (clone) 4764  
Consensus 6600

Spn3 db.ASCII 6650  
Spn3 (clone) 4814  
Consensus 6650

Spn3 db.ASCII 6700  
Spn3 (clone) 4864  
Consensus 6700

Spn3 db.ASCII 6750  
Spn3 (clone) 4914  
Consensus 6750

Spn3 db.ASCII 6800  
Spn3 (clone) 4964  
Consensus 6800

Spn3 db.ASCII 6850  
Spn3 (clone) 5014  
Consensus 6850

Spn3 db.ASCII 6900  
Spn3 (clone) 5064  
Consensus 6900

Spn3 db.ASCII 6950  
Spn3 (clone) 5114  
Consensus 6950

Spn3 db.ASCII 7000  
Spn3 (clone) 5164  
Consensus 7000

Spn3 db.ASCII 7050  
Spn3 (clone) 5214  
Consensus 7050

Spn3 db.ASCII 7100  
Spn3 (clone) 5264  
Consensus 7100

Spn3 db.ASCII 7150  
Spn3 (clone) 5314  
Consensus 7150

Spn3 db.ASCII 7200  
Spn3 (clone) 5364  
Consensus 7200

Spn3 db.ASCII 7250  
Spn3 (clone) 5414  
Consensus 7250

Spn3 db.ASCII 7300  
Spn3 (clone) 5464  
Consensus 7300

Spn3 db.ASCII 7350  
Spn3 (clone) 5514  
Consensus 7350

Spn3 db.ASCII 7400  
Spn3 (clone) 5564  
Consensus 7400

Spn3 db.ASCII 7450  
Spn3 (clone) 5614  
Consensus 7450

Spn3 db.ASCII 7500  
Spn3 (clone) 5664  
Consensus 7500

Spn3 db.ASCII 7550  
Spn3 (clone) 5714  
Consensus 7550

Spn3 db.ASCII 7600  
Spn3 (clone) 5764  
Consensus 7600

Spn3 db.ASCII 7650  
Spn3 (clone) 5814  
Consensus 7650

Spn3 db.ASCII 7700  
Spn3 (clone) 5864  
Consensus 7700

Spn3 db.ASCII 7750  
Spn3 (clone) 5914  
Consensus 7750

Spn3 db.ASCII 7800  
Spn3 (clone) 5964  
Consensus 7800

Spn3 db.ASCII 7850  
Spn3 (clone) 6014  
Consensus 7850

Spn3 db.ASCII 7900  
Spn3 (clone) 6064  
Consensus 7900

Spn3 db.ASCII 7950  
Spn3 (clone) 6114  
Consensus 7950

Spn3 db.ASCII 8000  
Spn3 (clone) 6164  
Consensus 8000

Spn3 db.ASCII 8050  
Spn3 (clone) 6214  
Consensus 8050

Spn3 db.ASCII 8100  
Spn3 (clone) 6264  
Consensus 8100

Spn3 db.ASCII 8150  
Spn3 (clone) 6314  
Consensus 8150

Spn3 db.ASCII 8200  
Spn3 (clone) 6364  
Consensus 8200

Spn3 db.ASCII 8250  
Spn3 (clone) 6414  
Consensus 8250

Spn3 db.ASCII 8300  
Spn3 (clone) 6464  
Consensus 8300

Spn3 db.ASCII 8350  
Spn3 (clone) 6514  
Consensus 8350

Spn3 db.ASCII 8400  
Spn3 (clone) 6564  
Consensus 8400

Spn3 db.ASCII 8450  
Spn3 (clone) 6614  
Consensus 8450

Spn3 db.ASCII 8500  
Spn3 (clone) 6664  
Consensus 8500

Spn3 db.ASCII 8550  
Spn3 (clone) 6714  
Consensus 8550

Spn3 db.ASCII 8600  
Spn3 (clone) 6764  
Consensus 8600

Spn3 db.ASCII 8650  
Spn3 (clone) 6814  
Consensus 8650

Spn3 db.ASCII 8700  
Spn3 (clone) 6864  
Consensus 8700

Spn3 db.ASCII 8750  
Spn3 (clone) 6914  
Consensus 8750

Spn3 db.ASCII 8800  
Spn3 (clone) 6964  
Consensus 8800

Spn3 db.ASCII 8850  
Spn3 (clone) 7014  
Consensus 8850

Spn3 db.ASCII 8900  
Spn3 (clone) 7064  
Consensus 8900

Spn3 db.ASCII 8950  
Spn3 (clone) 7114  
Consensus 8950

Spn3 db.ASCII 9000  
Spn3 (clone) 7164  
Consensus 9000

Spn3 db.ASCII 9050  
Spn3 (clone) 7214  
Consensus 9050

Spn3 db.ASCII 9100  
Spn3 (clone) 7264  
Consensus 9100

Spn3 db.ASCII 9150  
Spn3 (clone) 7314  
Consensus 9150

Spn3 db.ASCII 9200  
Spn3 (clone) 7364  
Consensus 9200

Spn3 db.ASCII 9250  
Spn3 (clone) 7414  
Consensus 9250

Spn3 db.ASCII 9300  
Spn3 (clone) 7464  
Consensus 9300

Spn3 db.ASCII 9350  
Spn3 (clone) 7514  
Consensus 9350

Spn3 db.ASCII 9400  
Spn3 (clone) 7564  
Consensus 9400

Spn3 db.ASCII 9450  
Spn3 (clone) 7614  
Consensus 9450

Spn3 db.ASCII 9500  
Spn3 (clone) 7664  
Consensus 9500

Spn3 db.ASCII 9550  
Spn3 (clone) 7714  
Consensus 9550

Spn3 db.ASCII 9600  
Spn3 (clone) 7764  
Consensus 9600

Spn3 db.ASCII 9650  
Spn3 (clone) 7814  
Consensus 9650

Spn3 db.ASCII 9700  
Spn3 (clone) 7864  
Consensus 9700

Spn3 db.ASCII 9750  
Spn3 (clone) 7914  
Consensus 9750

Spn3 db.ASCII 9800  
Spn3 (clone) 7964  
Consensus 9800

Spn3 db.ASCII 9850  
Spn3 (clone) 8014  
Consensus 9850

Spn3 db.ASCII 9900  
Spn3 (clone) 8064  
Consensus 9900

Spn3 db.ASCII 9950  
Spn3 (clone) 8114  
Consensus 9950

## Spn3 vs Spn3 (clone) Formatted Alignment

Spn3 (clone) 30  
Spn3 ORF+1 50  
Consensus 50

Spn3 (clone) 80  
Spn3 ORF+1 100  
Consensus 100

Spn3 (clone) 130  
Spn3 ORF+1 150  
Consensus 150

Spn3 (clone) 180  
Spn3 ORF+1 200  
Consensus 200

Spn3 (clone) 230  
Spn3 ORF+1 250  
Consensus 250

Spn3 (clone) 280  
Spn3 ORF+1 300  
Consensus 300

Spn3 (clone) 330  
Spn3 ORF+1 350  
Consensus 350

Spn3 (clone) 380  
Spn3 ORF+1 400  
Consensus 400

Spn3 (clone) 430  
Spn3 ORF+1 450  
Consensus 450

Spn3 (clone) 480  
Spn3 ORF+1 500  
Consensus 500

Spn3 (clone) 530  
Spn3 ORF+1 550  
Consensus 550

Spn3 (clone) 580  
Spn3 ORF+1 600  
Consensus 600

Spn3 (clone) 630  
Spn3 ORF+1 650  
Consensus 650

Spn3 (clone) 680  
Spn3 ORF+1 700  
Consensus 700

Spn3 (clone) 730  
Spn3 ORF+1 750  
Consensus 750

Spn3 (clone) 780  
Spn3 ORF+1 800  
Consensus 800

Spn3 (clone) 830  
Spn3 ORF+1 850  
Consensus 850

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Witnessed &amp; Understood by me,

Clement Rious

Date

17 Aout 98

Invented by

Recorded by

Clement Rious

Date

13/08/98

TITLE Séquence ORF 11 Spéc # 3-1 / psl301

From Page No. 116

(suite)

Spn3 (clonage)	TGNTSNTL EEPVTPDVQ EKAKFASY GKLEVLN MDOTTELYH	880
Spn3 ORF+1	TGNTSNTL EEPVTPDVQ EKAKFASY GKLEVLN MDOTTELYH	900
Consensus	TGNTSNTL EEPVTPDVQ EKAKFASY GKLEVLN MDOTTELYH	900
Spn3 (clonage)	SGEVTKKMA DPTGEAPQN GENKPSNGK VSTGTVENQ TENKPADSLP	930
Spn3 ORF+1	SGEVTKKMA DPTGEAPQN GENKPSNGK VSTGTVENQ TENKPADSLP	950
Consensus	SGEVTKKMA DPTGEAPQN GENKPSNGK VSTGTVENQ TENKPADSLP	950
Spn3 (clonage)	EAPNEKVPKP ENSTINGMLN PGRVGSDFH LDPALAEAPA VDPVQEKLEH	980
Spn3 ORF+1	EAPNEKVPKP ENSTINGMLN PGRVGSDFH LDPALAEAPA VDPVQEKLEH	1000
Consensus	EAPNEKVPKP ENSTINGMLN PGRVGSDFH LDPALAEAPA VDPVQEKLEH	1000
Spn3 (clonage)	FTASYGLGLD SVIPNDOTI ELRLPSGEVI KKLSDPIA	1019
Spn3 ORF+1	FTASYGLGLD SVIPNDOTI ELRLPSGEVI KKLSDPIA	1039
Consensus	FTASYGLGLD SVIPNDOTI ELRLPSGEVI KKLSDPIA	1039

Séquence en acide nucléique : 2 changements de bases

position 873 C → T  
 position 2293 T → C

Séquence en acides aminés : 1 changement d'acide aminé

position 765 F → L  
 Phe → Leu

Phe : acide aminé hydrophobe  
 Leu : acide aminé hydrophobe

\* Changement d'acide aminé causé par la mutation de la base en position 2293 (T → C)

Codon :  $\text{Phe} \rightarrow \text{Leu}$  } mutation position 2293 (acide nucléique)

Codon :  $\text{GAC} \rightarrow \text{GAT}$  } mutation position 873 (acide nucléique)  
 Asp Asp

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Witnessed &amp; Understood by me,

Date

Invented by

Date

Clément Rioux

17 AOUT 98

Recorded by

Yveline Pireau

13/02/98

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